

Rayat Shikshan Sanstha's

Annasaheb Aivate College Manchar, Pune

**Short Term
Course
On
Basic in
Geographic
Information
System
&
Remote
Sensing**



Academic Year 2020-21

Conducted by

Department of Physics

Total Duration Hrs: 30

**Rayat Shikshan Sanstha's
Annasaheb Awate College Manchar, Pune**

**DEPARTMENT OF PHYSICS
SHORT TERM COURSE**

Name of Course	Short-Term Course in Physics
Conducted By	Department of Physics
College	Annasaheb Awate College, Manchar, Pune
Title of Course	Basic in GIS & Remote Sensing
Duration of Course	One Month
Type Of Course	Elective
Class	S.Y./T.Y.B.Sc
Intake	30 Students
Fees	_____
Admission Criteria	Science
Attendance	100%
Course Co-ordinator	Mr. Mohansing A Padvi
Head of Department	Dr. R.S.Nimbalkar

Rayat Shikshan Sanstha's
Annasaheb Awate College Manchar, Pune
Department of Physics

NOTICE

Date --/--/2020

The students of **S.Y / T.Y.B.Sc.** are hereby informed that the Short-Term Course on “**Basic in GIS & Remote Sensing**” will commence from -- /--/2020. All the students of this course should remain present for the classes and practical as per time-table. It is mandatory to all enrolled students.

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Annasaheb Awate College Manchar pune
Short term Course
On
Basic in GIS & Remote Sensing

Sr. No.	Topic	Sub-Topics	Teaching Hours
1	Introduction to Map and Scale	Meaning & Definition of Map and Scale	6
		Component of Map	
		Types of Map	
		Methods of Representation of Scale	
		Scale Conversion	
2	Geographical Information System	Definition & History	8
		Component of the GIS	
		Data Structure and Formates	
		Spatial Data Models- Raster Data, Vector Data	
		Application of GIS	
3	Principles of Remote Sensing	History & Development	10
		Principles of Remote Sensing	
		Electro-Magnetic Radiation	
		Types of Remote Sensing- Aerial photographs and Satellite Images	
		Application of Remote Sensing	
4	Introduction to GIS Software	Overview an Arc Map & ERDAS	06
		Interpretation of Aerial Photographs	
		Exercise with Google Map	

Course Co-ordinator

Principal

Rayat Shikshan Sanstha's
Annasaheb Awate College Manchar, Pune

Syllabus

For
Short Term Course on Basic in GIS & Remote Sensing
in
Physics

Prepared by

Board of Studies in Physical Science

- 1) Prin. Dr. K.G. Kanade : Chairman
(A.A.College Manchar)
- 2) Dr. R. S. Nimbalkar : Members
(HOD Physics & Asso. Prof., A. A. College Manchar)
- 3) Dr. S. D. Ughade : Members
(HOD Geography & Asst. Prof., A.A. College Manchar)
- 5) Dr. V. M. Kulkarni : Members
(HOD Physics & Asst. Prof., H.R.M.College, Rajgurunagar)
- 6) Prof. S. U. Kudekar : Members
(HOD Physics, ACS College Narayangaon)

“Basic in GIS & Remote Sensing”

Objective of the Course

A Remote Sensing and Geographic Information System is a map, satellite and Computer based system that supports the study of natural and man-made things. This paper intends to acquaint the students with various dimensions about map making. They should understand the basic knowledge about the maps and software.

Objectives

- The Students develop practical knowledge about maps & mapping skills.
- The students understand the meaning of R.S. & GIS.
- The students increase the knowledge about the instruments and software which using in GIS.

Outcomes

- The Students develop practical knowledge about maps & mapping skills.
- The students understand the meaning of R.S. & GIS.
- The students increase the knowledge about the instruments and software which using in GIS.